

## Tushar Allotments Collaboration

### Assignments by Timing

(as of 2/6/08 Collaboration meeting)

**NOTE:** Please let facilitator Michele Straube ([mstraube@mindspring.com](mailto:mstraube@mindspring.com)) know when additional specific dates have been set, so that all Collaboration participants can be notified and can decide whether they wish to join the activity.

[The name listed in bold is the team leader with primary responsibility for the task. The other names are team members, who will work with the team leader to get it done.]

#### ASAP

- Pine Creek Allotment: Provide map of necessary fence improvements and estimated mileage to Sean Kelly. (**Selena Yardley**)
- Add direct link to Collaboration website (<http://tushar.ecr.gov/>) on Collaboration member organizations' websites. (**All Collaboration members** – some are done.)
- Pine Creek Allotment: Groundtruthing of the current suitability/vegetation map to consider erosion (Doug visit in Salt Lake with Jim/John on GIS to look at preliminary sites for examining during summer 2008). (**Doug Sorensen**, Joe Yardley, Jim Catlin, John Carter, John Keeler)
- Pine Creek and Ten Mile Allotments: Clarify maps on website that show vegetation, range improvements, other developments, veg treatments (e.g., chainings), roads, burns, riparian areas, capacity, topographic features, etc.; add dates of treatments, legends and color codes. (**Doug Sorensen**)
- Pine Creek and Ten Mile Allotments: Add potential range productivity maps to website. (**Doug Sorensen**)
- Ten Mile Allotment: Doug Sorensen to send, and Mary O'Brien to modify, EMS unit exam record. (**Doug Sorensen & Mary O'Brien**)
- Aspen Recruitment: Give Mary O'Brien information on what treatments were done and whether goals were reached. (**Bob Campbell**)
- Aspen Recruitment: Post Barton Stann (sp?) thesis to website. (**Mary O'Brien**)

#### AOP Meeting – Pine Creek Allotment



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- Evaluate existing fencing and develop fencing plan. (**Doug Sorensen**, Selena Yardley, Sean Kelly)
- Develop herding plan for each pasture. (**Doug Sorensen**, Permittees).
- Review grazing rotation schedule in annual meeting in February. (**Doug Sorensen**, Permittees)

### **AOP Meeting – Ten Mile Allotment**

- Initiate changes in time and number of grazing; ask Permittee for accelerated reduction (less than 150 cows?) (20% reduction per year for three years) (**Doug Sorensen** & Terry Krasko)
- Evaluate effectiveness of existing improvements. (**Doug Sorensen** & Permittee)
- Evaluate existing rotation schedule and modify as needed. (**Doug Sorensen** & Permittee)
- Evaluate existing fencing and develop fencing plan. (**Doug Sorensen**, Terry Krasko, & Permittee)
- Develop herding plan for each pasture. (**Doug Sorensen** & Permittee)

### **By End of February**

- Pine Creek Allotment: Provide information, including map, on vegetative treatment sites (burns & chainings), goals, evidence of goals being met/not met and where. What goals existed for previous treatments? What results have been written up on the treatments? Have the goals been met? Are any trend studies within the treatments? (**Doug Sorensen**)

### **March 2008**

- *March 20, Thursday, 6:00 p.m.:* Pine Creek and Ten Mile Allotments: Phone conference to talk about the use of exclosures or other methods to determine understory utilization. (**Sean** to get Bentenson Flat & Grindstone Flat data, **Bob** to get other data) Develop recommendations for locations to place exclosures and what can be learned from them. (**Mary O'Brien**, **Bob Campbell**, Permittees, Doug Sorensen, Steve Flinders, Sean Kelly)
- *Before March 31:* Pine Creek and Ten Mile Allotments: Build and put out utilization cages. Placement of utilization cages provided by Jim Catlin. John can provide 12-15 upland cages. Doug will make 4-5 new riparian cages. Pick



locations with Permittees. (**Doug Sorensen, John Carter**, Joe Yardley, Selena Yardley, Wyatt Barnson)

## April 2008

- *April 29:* Next Collaboration Meeting. In-the-field training, and report on use of exclosures or other methods to determine understory utilization (elk v. cows). (**Everyone**)

## Before Beaver Reintroduction

- Get signatures of water users (Robert Yardley, Joe Yardley, Pete Yardley, ENEL) and agreements with everyone else who might have a concern. (**Sean Kelly**)
- Water flow measurements prior to release. Establish an in-stream water gauge/flow meter prior to release (funding? Ask hydrologist?). (**Mary O'Brien**)
- Identify a control stream for comparison on water. (**Mary O'Brien**)
- Work with Mary O'Brien to determine what in-stream water gauge/flow meter system would be best prior to release of beaver. John Carter may have a staff gauge(s). (**John Carter**, Mary O'Brien)
- Add Pine Creek to the list of areas closed to beaver trapping in 2008. (**Sean Kelly**)

## May 2008

- *Week of May 5:* Pine Creek and Ten Mile Allotments: Pellet group counts (UDWR, **Sean Kelly**, Steve Flinders)
- *May 30, 31, June 1:* Pine Creek and Ten Mile Allotments: Pre-season utilization assessment – upland and riparian. Take pictures. (**Jim Catlin**, and volunteers)
- *May 30, 31, June 1:* Pine Creek Allotment: Rapid stream riparian assessment. (**David Smuin** and volunteers)
- *?? May 30, 31, June 1 ??* Beaver reintroduction on Pine Creek. (**Mary O'Brien**, UDWR, **need volunteers to help translocate beavers**)

## June 2008

- *Early Summer:* Mountain Mahogany Recruitment: Jim Catlin looking at regeneration. Develop simple metric evidencing where mountain mahogany is



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noticed, including 3-4 size classes. (**Jim Catlin**, Bob Campbell, & Mary O'Brien & anyone making observations.)

- *Early summer*: Pine Creek Allotment: Test cheat grass 3 years in a row on extreme NW corner of Allotment. Some fences already in place. Potential chaining after intensive grazing on one portion. (**Doug Sorensen**, Lee R Yardley; Joe Yardley) Clean pond out in the area. (**Joe Yardley**) (ENEL volunteers to build additional fence?)
- *As early as possible summer 2008*: Gather data on browse levels. (**Mary O'Brien**)
- Pine Creek Allotment: Determine what vegetative improvement sites need to be visited to gather data that are missing. (**Doug Sorensen**, Collaboration)
- If not already done: Beaver reintroduction on Pine Creek. (**Mary O'Brien**, UDWR, **need volunteers to help translocate beavers**)
- Beaver reintroduction: Monthly site visit to note beaver activity. (**Steve Flinders**)
- *Week of June 9*: Pine Creek and Ten Mile Allotments: Determine range readiness, identify criteria used, and post reports on website. (**Doug Sorensen** & Permittees)
- *Before 6/11/08 (Ten Mile) and 6/16/08 (Pine Creek)*: Need a rapid assessment checklist re: habitat conditions of springs. (**Mary O'Brien**)
- *Before 6/16/08*: Pine Creek Allotment: UDWR dedicated hunters will have installed, maintained, and improved fences. (Pine Creek and border fences, electric fence in wildcat). (**Sean Kelly**)
- *Before 6/16/08*: Pine Creek Allotment: Disseminate map of developed and undeveloped springs to all Collaboration members (or post on website?) (INFRA survey?). (**Doug Sorensen**)
- *Before 6/16/08*: Pine Creek Allotment: Visit Wildcat Creek, Grassy, Twitchell, North Creeks before, during, and after grazing in terms of forest plan standards. (**Mary O'Brien**, Doug Sorensen, Selena Yardley, Clark Bradshaw) (**Selena Yardley** to encourage Clark Bradshaw to attend)
- *Before 6/16/08*: Pine Creek Allotment: Evaluate stock water locations for needed improvements.(some has been done with INFRA surveys) – e.g., Dipping Vat and associated wetlands below; North Spring overflow. (**Doug Sorensen**; assigned Permittee; Mary O'Brien)



- *Before 6/16/08:* Pine Creek Allotment: Aspen browse counts throughout the Allotment – before cattle entry; right after cattle leave; and prior to snow. (**Mary O'Brien**)

## July 2008

- Monthly site visit to note beaver activity. (**Steve Flinders**)
- *July 7-18:* Pine Creek and Ten Mile Allotments: Re-read 10-12 trend studies in each allotment (**Bob Campbell**/Dave Tait/Doug Sorensen; Mary O'Brien; potentially Utah Native Plant Society; Sean Kelly (UDWR) (get existing trend studies from Jim Davis)). (**John Carter** to check whether Bob Edwards can participate). 1 week / Allotment.
- *July 7-18:* Pine Creek and Ten Mile Allotments: use checklist to do a survey of selected springs – both developed and undeveloped – for habitat conditions. (Could be done during re-survey of Ten Mile Allotment springs.) (Price, Cougar, Order, Bumble Bee, undeveloped in Ten Mile pasture, City Creek developed spring) (**Doug Sorensen** & Mary O'Brien)
- *July 7-18:* Ten Mile Allotment: Evaluate stock water locations for needed improvements. Cougar?, Bumble Bee to rebuild corral at the pond. (**Doug Sorensen**, engineers?, Permittees)
- *July 7-18:* Pine Creek and Ten Mile Allotments: Prioritize stock water developments/wetlands fencing. (**Doug Sorensen**, Permittee, Collaboration)
- *July 7-18:* Check reference areas now ???
- *July 7-18:* Ten Mile Allotment: Visit two water developments. (**Doug Sorensen** & Permittee)
- *Week of July 21:* Visit the nearest reference area for conditions (Cottonwood? South Creek? Birch Creek East?) (**Bob Campbell**, Mary O'Brien & Doug Sorensen)

## August 2008

- Monthly site visit to note beaver activity. (**Steve Flinders**)
- *Week of August 25:* Pine Creek and Ten Mile Allotments: End-of-season utilization cages data collection. (**Doug Sorensen**, Jim Catlin, Joe Yardley, Selena Yardley)
- *Week of August 25:* Visit reference area for forage comparisons (Cottonwood? South Creek?) (**Bob Campbell**, Mary O'Brien, & Doug Sorensen)



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- *Late-August:* Ten Mile Allotment (mid country): Determine the nearest reference area for conditions (Cottonwood? South Creek? Birch Creek East?) (Bob Campbell & Mary O'Brien)
- *August 30, 31, & Sept. 1:* Ten Mile Allotment: track/monitor riparian stubble height and riparian utilization. (Doug Sorensen & **Jim Catlin** & volunteers)
- *August 30, 31, & Sept. 1:* Ten Mile Allotment: Rapid riparian stream assessment. (**David Smuin** and volunteers)
- *August 30, 31, & Sept. 1:* Ten Mile Allotment: Aspen browse counts. (**Mary O'Brien** & students (willow/aspen))

### September 2008

- Monthly site visit to note beaver activity. (**Steve Flinders**)
- *Week of September 22:* Pine Creek and Ten Mile Allotments: Aspen browse counts. (**Mary O'Brien** & students)
- *End of summer 2008:* Beaver reintroduction: Water flow measurements post-release. Collect data from in-stream water gauge/flow meter installed prior to release. (**Mary O'Brien**)
- *End of summer:* Ten Mile Allotment: Collect existing knowledge on ecological potential plant communities. (**Jim Catlin**, Doug Sorensen, & John Carter)
- *Before October:* Ten Mile Allotment: Gather information on the historical presence of fires in the area. (**Bob Campbell**)
- *Before October:* Ten Mile Allotment: Gather information on historical aspen landscapes. (**Bob Campbell**)
- *Before October:* Pine Creek and Ten Mile Allotments: Estimate AUMs of cattle and elk and forage consumption. (**Jim Catlin/John Carter**)

### Throughout 2008 Field Season –

- Pine Creek and Ten Mile Allotments: Monitoring to see if utilization criteria standards being met or exceeded. (**Doug Sorensen**, John Carter/Jim Catlin?, fall Whitman College students)
- Pine Creek and Ten Mile Allotments: Look at aspen, cottonwood, and willow browse. (**Mary O'Brien** & GOB)



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- Pine Creek and Ten Mile Allotments: Cheat grass/noxious weeds survey (form) (**Anyone and everyone**)
- Pine Creek and Ten Mile Allotments: Mountain mahogany sightings (**Anyone and everyone**)
- Ten Mile Allotment: Monitoring, periodic visits, and reports to determine if utilization and stubble height (upland & riparian) standards are reached; make changes to grazing use of the Allotment. (**Doug Sorensen** & Permittee & anyone in communication with Doug regarding observations.)
- Ten Mile Allotment: look at resting pasture, allotment-wide, focusing on problem areas (Cottonwood, Cove Creek) (**Doug Sorensen**, Mary O'Brien, anyone and everyone)
- Ten Mile Allotment: Track whether cattle get into Cottonwood Allotment. (Pasture at rest) (**Anyone and everyone**)
- Beaver reintroduction: Monitor utilization during 2008 to see beaver / cow interaction (if any). (**need volunteers**)

#### **Summer 2008 (no month specified)**

- Pine Creek and Ten Mile Allotments: A Forest Supplement to accept the browsing methods being used. (**Doug Sorensen**, Diane Freeman)
- Pine Creek Allotment: Talk with BLM during 2008 (**Doug Sorensen**, Terry Krasko, Permittees)

#### **October 2008**

- Monthly site visit to note beaver activity. (**Steve Flinders**)
- Monitor utilization during 2008 to see beaver / cow interaction (if any). (**need volunteers**)
- Pine Creek Allotment: Revisit [BLM?] after data-gathering in 2008 (Collaboration)
- *Post 9/30/08*: Pine Creek Allotment: Visit Wildcat Creek, Grassy, Twitchell, North Creeks before, during, and after grazing in terms of forest plan standards. (**Mary O'Brien**, Doug Sorensen, Selena Yardley, Clark Bradshaw) (**Selena Yardley** to encourage Clark Bradshaw to attend)
- *Prior to snow*: Pine Creek Allotment: Understory utilization prior to cattle entry and after cattle entry; and prior to snow. (**Jim Catlin/John Carter**)



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- *Before first fall 2008 Collaboration meeting:* Pine Creek Allotment: Literature search on results of various cheat grass treatments (e.g., using livestock, newer herbicides) (e.g., Robin Tausch?). (**Doug Sorensen**)
- *Before first fall 2008 Collaboration meeting:* Pine Creek Allotment: Provide fire history and aspen history as GIS data (Doug Sorensen or **Bob Campbell**)

## 2009

- *Early summer:* Pine Creek Allotment: Test cheat grass 3 years in a row on extreme NW corner of Allotment. Some fences already in place. Clean pond out in the area. Potential chaining after intensive grazing on one portion. (**Doug Sorensen**, Lee R Yardley; Joe Yardley)

## 2010

- *Early summer:* Pine Creek Allotment: Test cheat grass 3 years in a row on extreme NW corner of Allotment. Some fences already in place. Clean pond out in the area. Potential chaining after intensive grazing on one portion. (**Doug Sorensen**, Lee R Yardley; Joe Yardley)

## DATES STILL NEED TO BE SET

- *Before, during and after grazing (determine dates after AOP meetings):* Pine Creek Allotment: Creek visits (**Doug Sorensen**, Mary O'Brien, Selena Yardley, Clark Bradshaw, Wyatt Barnson)
- Pine Creek Allotment: Visit Wildcat Creek, Grassy, Twitchell, North Creeks before, **during grazing**, and after grazing in terms of forest plan standards. (**Mary O'Brien**, Doug Sorensen, Selena Yardley, Clark Bradshaw) (**Selena Yardley** to encourage Clark Bradshaw to attend)
- Pine Creek Allotment: Visit Wildcat Creek, Grassy, Twitchell, North Creeks before, during, and **after grazing** in terms of forest plan standards. (**Mary O'Brien**, Doug Sorensen, Selena Yardley, Clark Bradshaw) (**Selena Yardley** to encourage Clark Bradshaw to attend)
- *3 additional times pasture by pasture:* Pine Creek and Ten Mile Allotments: measure understory utilization before and after cattle entry and prior to snow. (GOB volunteers, Mary's students, **Jim Catlin**, Jon Carter) (Part of early range readiness monitoring?)
- *Mid-season (determine date after AOP meetings):* Pine Creek and Ten Mile Allotments: During grazing utilization, upland and riparian. (**Doug Sorensen**, Jim Catlin, Mary O'Brien, Permittees, & volunteers)



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- *As cows leave pastures (determine date after AOP meetings):* Pine Creek and Ten Mile Allotments: Post grazing utilization, upland and riparian. (**Doug Sorensen**, Jim Catlin, Mary O'Brien, & volunteers)
- *Before, during and after grazing (determine dates after AOP meeting):* Ten Mile Allotment: Visit Ten Mile Creek and Order Creek in terms of forest plan standards. (**Doug Sorensen**, Mary O'Brien, & Permittee)
- Possibility of Collaboration field trip to Bentenson Flat and/or Grindstone Flat to look at existing three-way exclosures to see what can be learned from them. (**Doug Sorensen** – get data from Ephraim).
- *Before cattle entry, right after cattle leave, and prior to snow:* Pine Creek and Ten Mile Allotments: Aspen browse counts throughout the Allotment. (Mary O'Brien)

#### **ALREADY DONE (Give yourselves a pat on the back!)**

- Beaver reintroduction: Contact ENEL to explore their intended timing and need for Pine Creek water, as well as point of use for water. Coordinate with Sean Kelly on getting signatures / permission for use of water before reintroduction this summer. (**Bob Campbell**, Sean Kelly)
- Pine Creek Allotment: Scan in 1960s/1970s range analysis site maps. (**Doug Sorensen**)
- Pine Creek Allotment: Post maps to website that show vegetation, range improvements, other developments, veg treatments (e.g., chainings), roads, burns, riparian areas, capacity, topographic features, etc. (**Doug Sorensen**, John Carter)
- Beaver reintroduction: Develop a potential problems/solution management scheme, including funding options; and communicate with the state. (**Mary O'Brien**, Steve Flinders, Sean Kelly, Joe Yardley)
- Pine Creek Allotment: January 2008 elk counts. (**Sean Kelly**, Permittee observer?)
- Pine Creek Allotment: Distribute Catlin/Carter paper on AUM/forage estimation of wildlife/livestock. (**Mary O'Brien**)
- Pine Creek Allotment: Bring a proposed method for assessing willow. (**Mary O'Brien**)
- Pine Creek Allotment: Talk to Nicole Frey about a potential graduate student interest in the cheat grass experiment. (**John Keeler**)



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- Pine Creek Allotment: Look up NFF masters grant application process. (**Mary O'Brien**)
- Pine Creek Allotment: Mapping of cheat grass on the Allotment. (**Permittees** prepare a base map during the Feb. permittee meeting; Doug Sorensen and Permittees might ride; **all Collaboration members** add to it during the season)

